



EU-TYPE EXAMINATION CERTIFICATE

1

2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU-Type Examination Certificate Number: **Sira 19ATEX2008X** Issue: **6**

4 Equipment: **Field Mount Loop Power Transmitter, 4200 Series & 4700 Series**

5 Manufacturer: **Micro Motion**

6 Address: **7070 Winchester Circle
Boulder
Colorado 80301
USA**

7 This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in item 16.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2018
EN 60079-11:2012 EN 60079-31: 2014

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

12 The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):

Refer to the Schedule:

Signed: M Halliwell
Title: Senior Director of Operations
Date: 30 September 2025



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



SCHEDULE

13

14 EU-Type Examination Certificate Number: Sira 19ATEX2008X Issue: 6

15 Description:

The model designations are as follows:

| ATEX Model Code | Marking | |
|---------------------------|--|---|
| 4200 Series | | |
| 4200abcdeFAghijlmnn | CE _{nnnn} II 1 GD or II 2(1) G or II 2(1) D | Ex db [ia Ga] IIC T6 Gb Ex tb [ia Da] IIIC T72°C Db IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |
| 4200abcdeZAghijlmnn | CE _{nnnn} II 1 GD or II 2(1) G or II 2(1) D | Ex db eb [ia Ga] IIC T6 Gb Ex tb [ia Da] IIIC T72°C Db IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |
| 4200abcdeZBghijlmnn | CE _{nnnn} II 1 GD or II 1/2 G or II 1/2 D | Ex ia IIC T4 Ga Ex ia IIIC T77°C Da IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |
| 4700 Series | | |
| 4700 configurable outputs | | |
| 4700abcdeFAghijlmnn | CE _{nnnn} II 2GD or II 2(1) G or II 2(1) D | Ex db [ia Ga] IIC T6 Gb Ex tb [ia Da] IIIC T72°C Db IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |
| 4700abcdeZAghijlmnn | CE _{nnnn} II 2 GD or II 2(1) G or II 2(1) D | Ex db eb [ia Ga] IIC T6 Gb Ex tb [ia Da] IIIC T72°C Db IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |
| 4700 ISIO | | |
| 4700abcdeFAghijlmnn | CE _{nnnn} II 2GD or II 2(1) G or II 2(1) D | Ex db ia [ia Ga] IIC T6 Gb Ex tb ia [ia Da] IIIC T72°C Db IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |
| 4700abcdeZAghijlmnn | CE _{nnnn} II 2 GD or II 2(1) G or II 2(1) D | Ex db eb ia [ia Ga] IIC T6 Gb Ex tb ia [ia Da] IIIC T72°C Db IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C |



This certificate and its schedule may only be reproduced in its entirety and without change.
 CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



Model Code Nomenclature applicable for both, 4200 and 4700 Series:

4(2,7)00 a b c d e f f g h i j l m n n

Mounting (a)

- I = Integral Mount AL
- J = Integral Mount SST
- R = 4-wire remote mount transmitter AL
- M = 4-wire remote mount transmitter SST
- C = 9-wire remote mount transmitter AL
- P = 9-wire remote mount transmitter SST
- S = Integral Mount AL for retrofit

Power (b)

- 1 = 18 to 100 VDC and 85 to 265 VAC; self-switching

Display Options (c)

- 2 = Backlit dual line Display
- 3 = No Display
- 5 = Backlit dual line Display = Ex *** IIC T6 Gb
- V = Backlit dual Line Display w/ WiFi

Output Options (d)

- A = Configurable Outputs
- C = Ethernet Outputs
- D = IS I/O
- E = IS Foundation Fieldbus H1
- N = Non-IS Foundation Fieldbus H1

Conduit Connections (e)

- (B, C, D) = 1/2" NPT
- (E, F, G) = M20

Approval (ff)

- ZA = ATEX: II 2G, Ex de, Zone 1 and II 2D Ex tb, Zone 21
- FA = ATEX: II 2G, Ex d, Zone 1 and II 2D Ex tb, Zone 21
- ZB = ATEX: II1G, Ex ia, Zone 0 and II 1D Ex tb, Zone 20

General:

The 4200/4700 Series transmitter consists of both aluminum and stainless-steel versions of both the 4200 and 4700 transmitters, utilizing the 4200 and 4700 housings.

The 4200/4700 Series Transmitter Housing is designed to cater to two mounting versions. These mounting versions are Remote (from the Sensor) and Integral (on top of the Sensor).

The 4200/4700 Series Transmitter Housing consists of a two-compartment housing, classified as Terminal compartment (Ex-db, Ex-eb) and Electronic Compartment (Ex-db, Ex-ia). This compartmentalization is achieved by an enclosure wall section (Aluminum – cemented seal, SST – PTFE bushing).

The Terminal Compartment (Ex-eb, Ex-db) contains the terminals and is accessible by removing a lockout device and a threaded cover. This cover can only be a blind cover. The I/O terminals in this compartment could have either I.S. or non-I.S. I/O's, depending on the electronics option chosen. The Terminal Blocks used in this compartment are black in color and are Ex rated.

The Electronic compartment (Ex-db, Ex-ia) contains the main electronic circuits and is accessible by removing a lockout device and a threaded cover. This cover can be a blind cover or one with a window for a display.

For the integral mounting version, the 4200/4700 Series Transmitter Housing is directly fitted on the sensor using a feedthrough. Alternatively, the housing can be mounted to an adapter.



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



For the Remote mounting version, a Junction Box attaches to the 4200/4700 Series Transmitter Housing. This Junction Box is used to terminate wire from Sensor/core processor and feed it further into the 4200/4700 Series Transmitter Housing.

Part A: 4200 Series

The 4200 incorporates an on-board intrinsically safe (IS) shunt Zener diode safety assembly, which is encapsulated. The IS shunt Zener diode safety assembly then feeds the remaining electronics which are also encapsulated but protected by intrinsic safety.

The field wired connections are made inside the terminal compartment, which is protected by either Increased Safety (Ex eb, ec), Flameproof (Ex d), Intrinsic safety (Ex ia) or by enclosure (Ex t) for dust.

The electronics compartment is protected by Flameproof (Ex d), intrinsic safety (Ex ia), Increased Safety (Ex ec) or by enclosure (Ex t) for dust.

The terminal compartment, accessible via the threaded enclosure cover, allows electrical connection via two cable/conduit entries to a terminal block. Electrical connection to the remainder of the equipment is then made through the terminal PC Board. The electronics housing contains three PC Boards, the Power PCB, 2WCORE PCB, and Display PCB. All of the circuitry, except for the Display PCB, is encapsulated.

The 4200 Series transmitters are assessed for (a) Intrinsic Safety "ia", (b) Flameproof "db", (c) Dust Ignition protected "tb" and (d) Increased Safety type "eb" or "ec" protection methods.

| Intrinsic Safety and Dust-Ignition Protected (Ex ia IIC and Ex ia IIIC) | Flameproof or Increased Safety (Zone 1) and Dust-Ignition Protected (Ex db IIC and Ex tb IIIC) Or (Ex eb IIC and Ex tb IIIC) | Increased Safety (Zone 2) and Dust-Ignition Protected (Ex ec IIC and Ex tc IIIC) |
|--|--|--|
| $U_i = 30 \text{ Vdc}$ $I_i = 300 \text{ mA}$, $P_i = 1000 \text{ mW}$, $C_i = 1320\text{pF}$, $L_i = 2.86 \text{ }\mu\text{H}$ | $18 \text{ to } 30 \text{ Vdc}$, $4 \text{ to } 20\text{mA}$ 22mA Max. | $18 \text{ to } 30 \text{ Vdc}$, $4 \text{ to } 20\text{mA}$ 22mA Max. |

Input Entity Parameters (Intrinsically Safe Zone 0/1/2):

| Parameters | Series 4200 | |
|--------------------------------------|---------------------------|---------------------------|
| | gas application | dust application |
| Terminals | CH A, CH B, Terminals 1-4 | CH A, CH B, Terminals 1-4 |
| Voltage U_i | DC 30 V | DC 30 V |
| Current I_i | 300mA | 300mA |
| Power P_i | 1.0W | 1.0W |
| Effective internal capacitance C_i | 1320pF | 1320pF |
| Effective internal inductance L_i | 2.86uH | 2.86uH |

Output Entity Parameters, Group IIC (Zone 0/1/2):

| Parameters | Series 4200 |
|------------|---|
| | gas application |
| Terminals | Drive +, Drive - Drive Circuit (J2 in J-box, DR+ BRN; DR- RED) |
| U_o | 6.51VDC |
| I_o | 1.52A Instantaneous 0.136A Steady State |
| P_o | 0.81W |



This certificate and its schedule may only be reproduced in its entirety and without change.
 CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



| Parameters | Series 4200 |
|------------|-----------------|
| | gas application |
| Co | 22µF |
| Uo/Io | 4.28Ω |
| Lo | 15.4µH |
| Lo/Ro | 14.4µH/Ω |

Output Entity Parameters, Group IIB/Group IIIC (Zone 0/1/2):

| Parameters | Series 4200 | |
|------------|---|---|
| | gas application (Group IIB) | dust application (Group IIIB) |
| Terminals | Drive +, Drive – Drive Circuit (J2 in J-box, DR+ BRN; DR- RED) | Drive +, Drive – Drive Circuit (J2 in J-box, DR+ BRN; DR- RED) |
| Uo | 6.51VDC | 6.51VDC |
| Io | 1.52A Instantaneous 0.136A Steady State | 1.52A Instantaneous 0.136A Steady State |
| Po | 0.81W | 0.81W |
| Co | 500µF | 500µF |
| Uo/Io | 4.28Ω | 4.28Ω |
| Lo | 61.6µH | 61.6µH |
| Lo/Ro | 57.5µH/Ω | 57.5µH/Ω |

The maximum external inductance L (sensor coil) can be calculated with the following term:

$$L = 2 \times E \times \left(\frac{(Uo / Io_{inst}) + Ro}{1.5 \times Uo} \right)^2$$

whereby E = 40 µJ for group IIC and E = 160 µJ for group IIB & IIIC will be inserted.

Output Entity Parameters, Group IIC (Zone 0/1/2):

| Parameters | Series 4200 |
|------------|--|
| | gas application |
| Terminals | Pick Off's (RPO-), (RPO+), (LPO-), (LPO+) Pick Off Circuit (J1 in J-box, LPO+ GRN; LPO- WHT; RPO+ BLU; RPO- GRY) |
| Uo | 6.51VDC |
| Io | 2.63mA |
| Po | 4.3mW |
| Co | 22µF |
| Lo | 5.1H |
| Lo/Ro | 8.3mH/Ω |

Output Entity Parameters, Group IIB/Group IIIC (Zone 0/1/2):

| Parameters | Series 4200 | |
|------------|--|--|
| | gas application (Group IIB) | dust application (Group IIIB) |
| Terminals | Pick Off's (RPO-), (RPO+), (LPO-), (LPO+) Pick Off Circuit (J1 in J-box, LPO+ GRN; LPO- WHT; RPO+ BLU; RPO- GRY) | Pick Off's (RPO-), (RPO+), (LPO-), (LPO+) Pick Off Circuit (J1 in J-box, LPO+ GRN; LPO- WHT; RPO+ BLU; RPO- GRY) |
| Uo | 6.51VDC | 6.51VDC |
| Io | 2.63mA | 2.63mA |



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



| Parameters | Series 4200 | |
|------------|-----------------------------|-------------------------------|
| | gas application (Group IIB) | dust application (Group IIIB) |
| Po | 4.3mW | 4.3mW |
| Co | 500µF | 500µF |
| Uo/Io | 4.28Ω | 4.28Ω |
| Lo | 20.5H | 20.5H |
| Lo/Ro | 33.2mH/Ω | 33.2mH/Ω |

Output Entity Parameters, Group IIC (Zone 0/1/2):

| Parameters | Series 4200 |
|------------|---|
| | gas application |
| Terminals | J6 Pins 1(RTD_SNS),2(RTD_LO),9(RTD_HI) Temp Circuit (J1 in J-box, RTD+ VIO; RTD- ORA; RTD-SIG YEL) |
| Uo | 6.51VDC |
| Io | 12.3mA |
| Po | 20mW |
| Co | 22µF |
| Lo | 235mH |
| Lo/Ro | 1.78mH/Ω |

Output Entity Parameters, Group IIB/Group IIIC (Zone 0/1/2):

| Parameters | Series 4200 | |
|------------|---|---|
| | gas application (Group IIB) | dust application (Group IIIB) |
| Terminals | J6 Pins 1(RTD_SNS),2(RTD_LO),9(RTD_HI) Temp Circuit (J1 in J-box, RTD+ VIO; RTD- ORA; RTD-SIG YEL) | J6 Pins 1(RTD_SNS),2(RTD_LO),9(RTD_HI) Temp Circuit (J1 in J-box, RTD+ VIO; RTD- ORA; RTD-SIG YEL) |
| Uo | 6.51VDC | 6.51VDC |
| Io | 12.3mA | 12.3mA |
| Po | 20mW | 20mW |
| Co | 500µF | 500µF |
| Lo | 940mH | 940mH |
| Lo/Ro | 7.1mH/Ω | 7.1mH/Ω |

Part B: 4700 Series

The 4700 Series transmitter, using the HART communication protocol, gives easy access to information critical to measuring flow rates. Information from the measured flow rate, the instrument, or the sensor can be obtained downstream via HART communications.

The 4700 Series transmitter can be configured, calibrated, or tested with FACTORY USE ONLY clip lead connections in the terminal compartment.

| Type | Associated Apparatus | |
|----------------------|--|---|
| Supply Voltage Range | 18V to 100V DC, 85V _{rms} to 250V _{rms} AC (auto-ranging supply) | |
| Um | 240V _{rms} , 375V pk | |
| Classification | 4700 Series | |
| | Model 4700abceffghijlmnn Zone 1 (Exd) | II 2 G Ex db [ia Ga IIC] IIB+H ₂ T6 Gb II 2 G Ex db [ia Ga] IIC T6 Gb II 2 D Ex tb [ia Da] IIIC T80°C Db IP66/IP67 |



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



| Type | Associated Apparatus | |
|---------------------------------------|---|---|
| | Model 4700abceffghijlmnn Zone 1 (Exde) | II 2 G Ex db eb [ia Ga IIC] IIB+H ₂ T6 Gb II 2 G Ex db eb [ia Ga] IIC T6 Gb II 2 D Ex tb [ia Da] IIIC T80°C Db IP66/IP67 |
| | Model 4700abceffghijlmnn Zone 2 | II 3 G Ex ec nC [ia Ga] IIC T4 Gc II 3 D Ex tc [ia Da] IIIC T80°C Dc IP66/IP67 |
| | Model 4700abceffghijlmnn North America | Explosion Proof with I.S. output to sensor for Class I, Div 1, Groups C, D Non-Incendive for Class I, Div 2, Groups A, B, C, D Dust ignition Proof for Class II, Div. 1, Groups E, F, G |
| | 4700 ISIO option only | |
| | Model 4700abcdeffghijlmnn Zone 1 (Exd) | II 2 G Ex db ia [ia Ga IIC] IIB+H ₂ T6 Gb II 2 G Ex db ia [ia Ga] IIC T6 Gb II 2 D Ex tb ia [ia Da] IIIC T80°C Db IP66/IP67 |
| | Model 4700abcdeffghijlmnn Zone 1 (Exde) | II 2 G Ex db eb ia [ia Ga IIC] IIB+H ₂ T6 Gb II 2 G Ex db eb ia [ia Ga] IIC T6 Gb II 2 D Ex tb ia [ia Da] IIIC T80°C Db IP66/IP67 |
| | Model 4700abcdeffghijlmnn Zone 2 | II 3 G Ex ec nC ia [ia Ga] IIC T4 Gc II 3 D Ex tc ia [ia Da] IIIC T80°C Dc IP66/IP67 |
| | Model 4700abcdeffghijlmnn North America | Explosion Proof with I.S. output to sensor for Class I, Div 1, Groups C, D Non-Incendive for Class I, Div 2, Groups A, B, C, D Dust ignition Proof for Class II, Div. 1, Groups E, F, G |
| Ambient Temperature Rating | ALUMINUM (ALL MODELS): -52°C Ta 65°C 4700 STAINLESS-STEEL: -60°C Ta 60°C | |
| Max Internal Ambient Temperature Rise | 20°C | |
| Housing Temperature Rise | 7°C | |
| Connection Facilities | Integral | Power: 2 (Exe rated terminals) I/O: 6 (Exe rated terminals) |
| | 4-Wire Remote | Power: 2 (Exe rated terminals) I/O: 6 (Exe rated terminals) Sensor: 4 (Exi) |
| | 9-Wire Remote | Power: 2 (Exe rated terminals) I/O: 6 (Exe rated terminals) Sensor: 9 (Exi) |



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



| Type | Associated Apparatus | |
|-------------------------|----------------------|--|
| Entity Parameters | 9-Wire circuit | <ul style="list-style-type: none"> ○ Drive Circuit <ul style="list-style-type: none"> ▪ $U_o = 10.5V$ ▪ $R_s = 9.9 \Omega$ ▪ $Lo/Ro = 12.77 \mu H / \Omega$ ○ Pick-Off Circuit <ul style="list-style-type: none"> ▪ $U_o = 21 V$ ▪ $R_s = 9990 \Omega$ ▪ $Lo/Ro = 3.22 mH / \Omega$ ○ RTD Circuit <ul style="list-style-type: none"> ▪ $U_o = 21 V$ ▪ $R_s = 3630 \Omega$ ▪ $Lo/Ro = 1.17 mH / \Omega$ |
| | 4-Wire Circuit | <ul style="list-style-type: none"> ● $U_o = 17.2 V$ ● $R_o = 35.91 \Omega$ ● $Lo/Ro = 17.26 \mu H / \Omega$ |
| PC Board Tracking Index | 175 Minimum | |

The 4700 Series Transmitter employs a PCA connector which connects the Electronics located in the Electronics compartment to the user interface terminals in the Terminal compartment. It consists of two sections of rigid PCB connected by a flexible section. The flexible section is an integral part of, and serves as the inner layers of, both rigid sections. One of the rigid sections passes through an aperture between the two housing compartments.

Variation 1 - This variation introduced the following changes:

- i. Introduction of 4200J Version; new flameproof-only 4200 model with single-compartment stainless steel (SST) enclosure. Results of custom testing report to be assessed for acceptability of markings "Ex db IIB T6 Gb". No other changes to device construction or ratings.
- ii. Marking and the Product Description sections revised to include the introduced 4200J Version Marking and Description.

Variation 2 - This variation introduced the following change:

- i. To add a stainless-steel housing option for the intrinsically safe models. 4200(J,P)*****ZB***** (ATEX version)

Variation 3 - This variation introduced the following change:

- i. Products Description updated to include the model code description.
- ii. Markings correction for the 4200 model: 4200*****ZB***** model. The II 2(1) G was changed to II 1/2 G, and the II 2(1) D was changed to II 1/2 D.
- iii. Markings updated for all 4200 Models. The $T_a = -40^{\circ}C$ to $+65^{\circ}C$ has been changes as T_a (AL): $-52^{\circ}C$ to $65^{\circ}C$ / T_a (SST): $-60^{\circ}C$ to $60^{\circ}C$.
- iv. Deletion of models 4200J****FA*****; 4200(J,P) *****ZB*****; and 4200*****VA***** , and product description was updated accordingly.
- v. Introduction of 4700 series; product description was updated accordingly.

Variation 4 - This variation introduced the following change:

- i. Evaluation to implement 4200 and 4700 series model code corrections.

Variation 5 - This variation introduced the following change:

- i. Evaluation to add new 4700 ISIO model
- ii. Updated marking section



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



- iii. Updated product description
- iv. Add drawings for ISIO board
- v. Added relevant checklists in section 5 to support evaluation

16 Drawings and documents:

16.1 Technical documents:

Refer to Certificate Annex.

16.2 Associated reports and certificate history:

| Issue | Date | Report number | Comment |
|-------|-------------------|---------------|--|
| 0 | 29 April 2019 | R70183768A | The release of the prime certificate. |
| 1 | 31 October 2019 | 4166 | Transfer of certificate Sira 19ATEX2008X from Sira Certification Service to CSA Netherlands B.V. |
| 2 | 02 March 2022 | R80089050A | The introduction of Variation 1. |
| 3 | 08 September 2022 | R80130151A | The introduction of Variation 2. |
| 4 | 30 August 2023 | R80158792A | The introduction of Variation 3. |
| 5 | 26 March 2024 | R80202525A | The introduction of Variation 4. |
| 6 | 30 September 2025 | R80246070A | The introduction of Variation 5. |

17 Specific conditions of use (denoted by "X" after the certificate number):

- 17.1 If a charge-generating mechanism is present, the exposed painted metallic part on the enclosure is capable of storing a level of electrostatic charge that could become incendive for IIIC dust. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g. earthing the metallic part. This is particularly important if the equipment is installed in a zone 0 location. Cleaning of the painted surface shall only be done with a damp cloth.
- 17.2 The enclosure is manufactured from Aluminium, magnesium, titanium or zirconium may be used at the accessible surface of the equipment. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered when the Micro Motion 4200 is being installed in Zone 0 locations for group II/III level of protection Ga/Da.
- 17.3 The flameproof joints are not intended to be repaired.

18 Essential health and safety requirements of Annex II (EHSRs):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 Remarks and additional information:

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 Conditions of manufacture:

- 19.1.1 **Intrinsic safety "i" items.** - In accordance with EN 60079-11:2012 clause 10.3, each manufactured sample of the equipment shall be subjected to an electric strength test using a test voltage of 500 Vac applied between all input terminals and the enclosure for 60 seconds. Alternatively, a voltage of 20% higher may be applied for 1s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.





- 19.1.2 In accordance with EN IEC 60079-11:2012 clause 11.2, each manufactured sample of the equipment shall be subjected to an electric strength test using a test voltage of 1500 Vac applied between all input terminals and sensor output terminals for 60 seconds. Alternatively, a voltage of 20% higher may be applied for 1s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.
- 19.1.3 **Increased safety "eb" items** - In accordance with EN 60079-7:2015/A1:2018 clause 7.1, each manufactured sample of the equipment shall be subjected to an electric strength test using a test voltage of 500 Vac applied between all input terminals and the enclosure for 60 seconds. Alternatively, a voltage of 20% higher may be applied for 1s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.
- 19.1.4 In accordance with EN 60079-7:2015/A1:2018 clause 7.1, each manufactured sample of the equipment shall be subjected to an electric strength test using a test voltage of 500 Vac applied between all input terminals and sensor output terminals for 60 seconds. Alternatively, a voltage of 20% higher may be applied for 1s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



Certificate Annexe

Document History

Issue 0

Documents Introduced or Revised

| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|--------------|---------|------|--------------|--|
| EB-20055316 | 1 to 4 | AA | 26 Mar 19 | SPEC, APPVL TAG 4200 XMTR ATEX Zn 0/1 |
| EB-20055415 | 1 to 10 | AA | 26 Mar 19 | ATEX Installation Instructions(Zone 0/1) |
| EB-20002371 | 1 of 1 | BC | 19 Feb 19 | APPROVAL, SPLINED FEEDTHROUGH |
| MMI-20045788 | 1 of 1 | AD | 19 Feb 19 | PCB, 4200, POWER – LAYER STACK |
| EB-20048326 | 1 to 11 | AA | 19 Feb 19 | SPEC SAFETY DESC 4200 FLAME PROOF & INCREASED SAFETY |
| EB-20048833 | 1 of 10 | AA | 20 Mar 19 | TRANSMITTER, HOUSING 4200 |
| EB-20048834 | 1 of 2 | AA | 19 Feb 19 | DISPLAY/BLIND COVER 4200 |
| EB-20048835 | 1 of 1 | AA | 19 Feb 19 | ASSY, DISPLAY COVER 4200 |
| EB-20048839 | 1 of 1 | AA | 19 Feb 19 | TERMINAL COVER, 4200 |
| EB-20049361 | 1 to 4 | AA | 22 Mar 19 | ASSY, HOUSING, 4200 |
| EB-20049364 | 1 of 4 | AA | 19 Feb 19 | APPVL, ASSY, MODULE, 4200 |
| EB-20049365 | 1 to 4 | AB | 19 Feb 19 | APPVL, SCHEM, 4200, POWER |
| EB-20049366 | 1 to 4 | AB | 19 Feb 19 | APPVL, PCA, 4200 POWER |
| EB-20049367 | 1 to 6 | AB | 19 Feb 19 | APPVL, EBOM, 4200 Power |
| EB-20049368 | 1 to 8 | AB | 19 Feb 19 | APPVL, SCHEM, 4200, 2WCORE |
| EB-20049369 | 1 to 4 | AB | 19 Feb 19 | APPVL, PCA, 4200 2WCORE |
| EB-20049370 | 1 to 4 | AB | 19 Feb 19 | APPVL, EBOM, 4200, 2WCORE |
| EB-20049371 | 1 of 1 | AA | 19 Feb 19 | APPVL, SCHEM, FLEX, 4200 MODULE |
| EB-20049373 | 1 to 3 | AA | 19 Feb 19 | APPVL, ASSY, DISPLAY, 4200 |
| EB-20049374 | 1 of 1 | AA | 19 Feb 19 | APPVL, SCHEM, FLEX, 4200 DISPLAY |
| EB-20049376 | 1 to 2 | AA | 19 Feb 19 | APPVL, SCHEM, 4200, DISPLAY BUTTONS |
| EB-20049378 | 1 to 2 | AB | 19 Feb 19 | APPVL, SCHEM, 4200, DISPLAY, CONTROLLER |
| EB-20049379 | 1 to 3 | AB | 19 Feb 19 | APPVL, PCA, 4200, DISPLAY, CONTROLLER |
| EB-20049380 | 1 to 2 | AB | 19 Feb 19 | APPVL, EBOM, 4200, DISPLAY, CONTROLLER |
| EB-20049381 | 1 of 1 | AA | 19 Feb 19 | APPVL, ASSY, TERMINAL, 4200 |
| EB-20049382 | 1 to 2 | AB | 19 Feb 19 | APPVL, SCHEM, 4200, TERMINAL |
| EB-20049383 | 1 to 4 | AB | 19 Feb 19 | APPVL, PCA, 4200, TERMINAL |
| EB-20049384 | 1 of 1 | AB | 19 Feb 19 | EBOM, 4200 TERMINAL |
| EB-20049388 | 1 of 4 | AA | 20 Mar 19 | APPVL ASSY TRANSMITTER 4200 |
| EB-20057899 | 1 of 1 | AA | 20 Mar 19 | APPVL ASSY CLAMP |
| MMI-20032616 | 1 of 1 | AB | 19 Feb 19 | PCB FLEX 4200 MODULE – LAYER STACK |
| MMI-20032617 | 1 of 1 | AB | 19 Feb 19 | PCB, FLEX 4200 DISPLAY – LAYER STACK |
| MMI-20033434 | 1 of 1 | AC | 19 Feb 19 | 4200 DISPLAY BUTTONS – LAYER STACK |
| MMI-20038852 | 1 to 2 | AD | 19 Feb 19 | PCB, 4200 Display Controller – LAYER STACK |
| MMI-20046115 | 1 to 2 | AE | 19 Feb 19 | PCB, 4200, 2WCORE - LAYER STACK |
| MMI-20046916 | 1 of 1 | AE | 19 Feb 19 | 4200 TERMINAL PCB GERBERS – LAYER STACK |

Issue 1 – No new drawings were introduced.

Issue 2

Documents Introduced or Revised

| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|-------------|---------|------|--------------|--|
| EB-20083629 | 1 to 11 | 02 | 25 Feb 22 | APPVL HOUSING STAINLESS STEEL 4200/ 4700 |

This annexe may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|-------------|--------|------|--------------|---|
| EB-20083833 | 1 to 2 | 01 | 25 Feb 22 | APPVL DISPLY/ BLIND COVER, SST 4200/ 4700 |

Issue 3

Documents Introduced or Revised

| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|-------------|---------|------|--------------|---|
| EB-20083629 | 1 to 11 | 02 | 23 Aug 22 | APPVL HOUSING STAINLESS STEEL 4200/ 4700 |
| EB-20083833 | 1 to 2 | 01 | 23 Aug 22 | APPVL DISPLY/ BLIND COVER, SST 4200/ 4700 |

Issue 4

Documents Introduced or Revised

| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|--------------|---------|------|--------------|--|
| MMI-20046115 | 1 to 2 | AG | 23 Aug 22 | PCB, 4200, 2WCORE - LAYER STACK Updated from revision AE. Evaluation performed under Project 80158791, North America Certification Report 70183767 |
| MMI-20031142 | 1 to 2 | AF | 03 Aug 23 | PCB, 4700, POWER, 9W, PCB Schematic |
| MMI-20031144 | 1 to 2 | AC | 03 Aug 23 | PCB, 4700, POWER, 4W, PCB Schematic |
| MMI-20031146 | 1 to 2 | AE | 03 Aug 23 | PCB, 4700 COMMUNICATIONS BOARD PCB SCHEMATIC |
| MMI-20031147 | 1 of 1 | AC | 03 Aug 23 | PCB, TERMINAL, PCB SCHEMATIC |
| MMI-20031152 | 1 to 2 | AC | 03 Aug 23 | 4700 DISPLAY CONTROLLER PCB, PCB SCHEMATIC |
| EB-20090175 | 1 to 15 | AA | 03 Aug 23 | 4000 SERIES MECHANICALAPPROVALS CONTROL DRAWING |
| MMI-20031518 | 1 of 1 | AG | 03 Aug 23 | 4700 POWER 4W PCA |
| MMI-20031566 | 1 of 1 | AG | 03 Aug 23 | 4700 POWER 9W PCA |
| MMI-20031145 | 1 of 1 | AG | 03 Aug 23 | 4700 COMMUNICATIONS BOARD PCA |
| MMI-20082368 | 1 of 1 | AA | 03 Aug 23 | 4700 DISPLAY BUTTONS PCB, PCB SCHEMATIC |
| MMI-20085529 | 1 of 1 | AA | 03 Aug 23 | DISPLAY BUTTONS PCA |
| MMI-20021465 | 1 to 2 | AC | 03 Aug 23 | RMT 9WIRE TERM PCB, PCB SCHEMATIC |
| MMI-20024597 | 1 to 2 | AB | 03 Aug 23 | RMT 4WIRE TERM PCB, PCB SCHEMATIC |

Issue 5. No new drawings were introduced.

Issue 6

Documents Introduced or Revised

| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|------------------|---------|------|--------------|---|
| EB-20090175 | 1 to 15 | AB | 03 Sep 25 | 4000 SERIES MECHANICALAPPROVALS CONTROL DRAWING |
| MMI-20097775* | 1 to 2 | AB | 03 Sep 25 | PCB,4700,IO,ISIO |
| MMI-D-20031142* | 1 to 4 | AH | 03 Sep 25 | ASSY,MODULE,9-WIRE,4700 ISIO |
| MMI-D-20031144* | 1 to 4 | AE | 03 Sep 25 | ASSY,MODULE,4-WIRE,4700 ISIO |
| EB-20113884* | 1 to 5 | AA | 03 Sep 25 | EBOM,4700,IO,ISIO |
| MMI-ES-20097775* | 1 to 15 | AB | 03 Sep 25 | SCHEM,4700,IO,ISIO |
| MMI-D-20097775* | 1 to 4 | AB | 03 Sep 25 | PCA, 4700,IO,ISIO |

This annexe may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.